SUBJECT INDEX

Accident prevention

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Accidents

Evaluating Roadside Hazards Using Computer-Simulation Model, Paul deLeur, Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245.

Age factors

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Aggregates

Compacted High-Gravel-Content Subgrade Materials, William N. Houston, Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205.

Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Air pollution

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Air routes

Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Air traffic

Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Air transportation

Passenger-Terminal Simulation Model, José Reynaldo Setti and Bruce G. Hutchinson, TE July/Aug. 94, p517-535.

Aircraft

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Optimum Design of Airport Enplaning Curbside Areas, Mahmoud S. Parizi and John P. Braaksma, TE July/Aug. 94, p536-551.

Airfields

Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Airport terminals

Passenger-Terminal Simulation Model, José Reynaldo Setti and Bruce G. Hutchinson, TE July/Aug. 94, p517-535.

Airports

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Optimum Design of Airport Enplaning Curbside Areas, Mahmoud S. Parizi and John P. Braaksma, TE July/Aug. 94, p536-551.

Algorithms

Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, W. T. Chan, T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709.

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Asphalt cement

Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Asphalt pavements

Comparison of Nuclear and Core Pavement Density Measurements, Steve R. Sanders, Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966.

Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Asphalts

Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Atterberg limits

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Autocorrelation

New Crack-Imaging Procedure Using Spatial Autocorrelation Function, H. Lee and H. Oshima, TE Mar./Apr. 94, p206-228.

Automatic identification systems

Computer Vision System for Automatic Vehicle Classification, Xidong Yuan, Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876.

Automation

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Bearing capacity

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Bicycles

Characteristics of Trips by Foot and Bicycle Modes in Indian City, V. Thamizh Arasan, V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294.

Braking forces

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Bridge abutments

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Bridge approaches

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Bridge loads

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Bridge maintenance

Markovian Models for Bridge Maintenance Management, William T. Scherer and Douglas M. Glagola, TE Jan./Feb. 94, p37-51.

Bridges

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Buckling

Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Buried pipes

Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Buses

Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Torng, TE Nov./Dec. 94, p914-929.

California bearing ratio

Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Collisions

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Compaction

Compacted High-Gravel-Content Subgrade Materials, William N. Houston, Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205.

Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Comparative studies

Effects of Routine Maintenance on Flexible Pavement Condition, Abdullah I. Al-Mansour, Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73.

Composite materials

Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Computation

Unified Design of Horizontal Circular Curves, Said M. Easa, TE Jan./Feb. 93, p94-110.

Computer applications

Neural Network for Gap Acceptance at Stop-Controlled Intersections, Prahlad D. Pant and Purushothaman Balakrishnan, TE May/June 94, p432-446.

Simple Procedure for Identifying Pavement Distresses from Video Images, Koon Meng Chua and Ling Xu, TE May/June 94, p412-431.

Computer models

Passenger-Terminal Simulation Model, José Reynaldo Setti and Bruce G. Hutchinson, TE July/Aug. 94, p517-535.

Computerized design

Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Computerized simulation

Evaluating Roadside Hazards Using Computer-Simulation Model, Paul deLeur, Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245.

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Concrete

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Concrete pavements

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Warping Stresses in Concrete Pavements on Pasternak Foundation, X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913.

Concrete, reinforced

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

Reliability Assessment of Continuously Reinforced Concrete Pavements, Angela J. Weissmann, B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Concrete slabs

Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Construction materials

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Continuous structures

Reliability Assessment of Continuously Reinforced Concrete Pavements, Angela J. Weissmann, B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192.

Continuum hypothesis

Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Corners

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Correlation analysis

Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Corrosion

Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Cost effectiveness

Evaluation Framework for IVHS, Hong K. Lo, Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460.

Cost estimates

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Cracks

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

New Crack-Imaging Procedure Using Spatial Autocorrelation Function, H. Lee and H. Oshima, TE Mar./Apr. 94, p206-228.

Curvature

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Cyclic loads

Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Data collection

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Data collection systems

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

Data processing

Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Database management systems

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Decision making

Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Markovian Models for Bridge Maintenance Management, William T. Scherer and Douglas M. Glagola, TE Jan./Feb. 94, p37-51.

Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Decision support systems

Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, Chien-Hua Hsiao, Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772.

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Deflection

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Densification

Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Density

Comparison of Nuclear and Core Pavement Density Measurements, Steve R. Sanders, Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966.

Design

Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Tong, TE Nov./Dec. 94, p914-929.

Unified Design of Horizontal Circular Curves, Said M. Easa, TE Jan./Feb. 93, p94-110.

Deterioration

Markovian Models for Bridge Maintenance Management, William T. Scherer and Douglas M. Glagola, TE Jan./Feb. 94, p37-51.

Differential settlement

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Driver behavior

Effect of Restriction of Vision on Driving Performance, Rod Troutbeck and Joanne M. Wood, TE Sept./Oct. 94, p737-752.

Human Factors Design Considerations for Variable Message Freeway Signs, Jeffrey Dale Armstrong and Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282.

Driver tests

Effect of Restriction of Vision on Driving Performance, Rod Troutbeck and Joanne M. Wood, TE Sept./Oct. 94, p737-752.

Dynamic analysis

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Dynamic loads

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Dynamics

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Earthwork

Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Elastic foundations

Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Embankments

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Emissions

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Environmental factors

Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Environmental impacts

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Estimating

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Evaluation

Evaluation Framework for IVHS, Hong K. Lo, Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460.

Evolution, development

Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, W. T. Chan, T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709.

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Expert systems

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Failures
Effect of Temperature Changes on Water-Main Breaks, Ahmad Habibian, TE Mar./Apr. 94, p312-321.

Falling bodies
Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Field tests
Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Finite element method
Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Flexibility
Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Flexible pavements
Effects of Routine Maintenance on Flexible Pavement Condition, Abdullah I. Al-Mansour, Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73.

Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Flexible pipes
Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Floors
Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Torng, TE Nov./Dec. 94, p914-929.

Fuzzy sets
Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, Chien-Hua Hsiao, Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772.

Geographic information systems
Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Geometry
Geometric Characterization of Road Humps for Speed-Control Design, T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598.

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Granular materials
Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Granular media
Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Gravel
Compacted High-Gravel-Content Subgrade Materials, William N. Houston, Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205.

Handicapped passengers
Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Torng, TE Nov./Dec. 94, p914-929.

Height
Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Torng, TE Nov./Dec. 94, p914-929.

Heuristics
Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Highway accident potential
Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Highway construction
Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Highway design
Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Unified Design of Horizontal Circular Curves, Said M. Easa, TE Jan./Feb. 93, p94-110.

Yearly Variation of Directional Distribution of Highway Traffic, Satish C. Sharma, TE May/June 93, p478-484.

Highway improvements
Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Highway maintenance

Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, W. T. Chan, T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709.

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Highway management

Human Factors Design Considerations for Variable Message Freeway Signs, Jeffrey Dale Armstrong and Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282.

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Highway planning

Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Yearly Variation of Directional Distribution of Highway Traffic, Satish C. Sharma, TE May/June 93, p478-484.

Highway safety

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Evaluating Roadside Hazards Using Computer-Simulation Model, Paul deLeur, Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245.

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Highways

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Human factors

Human Factors Design Considerations for Variable Message Freeway Signs, Jeffrey Dale Armstrong and Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282.

Image analysis

Computer Vision System for Automatic Vehicle Classification, Xidong Yuan, Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876.

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

New Crack-Imaging Procedure Using Spatial Autocorrelation Function, H. Lee and H. Oshima, TE Mar./Apr. 94, p206-228.

Simple Procedure for Identifying Pavement Distresses from Video Images, Koon Meng Chua and Ling Xu, TE May/June 94, p412-431.

Images

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

Impact

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Impact forces

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Impact loads

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

India

Characteristics of Trips by Foot and Bicycle Modes in Indian City, V. Thamizh Arasan, V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294.

Infrastructure

Markovian Models for Bridge Maintenance Management, William T. Scherer and Douglas M. Glagola, TE Jan./Feb. 94, p37-51.

Injuries

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Inspection

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Intelligent vehicle highway systems

Evaluation Framework for IVHS, Hong K. Lo, Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460.

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Interfaces

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. .Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Intersections
Neural Network for Gap Acceptance at Stop-Controlled Intersections, Prahlad D. Pant and Purushothaman Balakrishnan, TE May/June 94, p432-446.

Iteration
Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Knowledge-based systems
Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Laboratory tests
Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Land usage
Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Loading
Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Loads
Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Maintenance
Effects of Routine Maintenance on Flexible Pavement Condition, Abdullah I. Al-Mansour, Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73.

Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Markov chains
Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Markov process
Markovian Models for Bridge Maintenance Management, William T. Scherer and Douglas M. Glagola, TE Jan./Feb. 94, p37-51.

Materials, properties
Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Materials testing
Comparison of Nuclear and Core Pavement Density Measurements, Steve R. Sanders, Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966.

Measuring instruments
Comparison of Nuclear and Core Pavement Density Measurements, Steve R. Sanders, Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966.

Modeling
Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Modulus of elasticity
Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Moisture content
Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Multiple objective analysis
Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Nepal
Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Neural networks
Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, Chien-Hua Hsiao, Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772.

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

Neural Network for Gap Acceptance at Stop-Controlled Intersections, Prahlad D. Pant and Purushothaman Balakrishnan, TE May/June 94, p432-446.

Nondestructive tests
Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Nonlinear analysis

Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Optimal design

Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Optimum Design of Airport Enplaning Curbside Areas, Mahmoud S. Parizi and John P. Braaksma, TE July/Aug. 94, p536-551.

Optimization

Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, Mustaque Hossain, John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393.

Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, W. T. Chan, T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709.

Orientation

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Overloads

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Passenger terminals

Passenger-Terminal Simulation Model, José Reynaldo Setti and Bruce G. Hutchinson, TE July/Aug. 94, p517-535.

Pavement condition

Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, Mohamed S. Kaseko, Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569.

Effects of Routine Maintenance on Flexible Pavement Condition, Abdullah I. Al-Mansour, Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73.

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

Mechanistic Model for Transition Probabilities, K. H. Chua and C. L. Monismith, TE Jan./Feb. 94, p144-159.

Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Simple Procedure for Identifying Pavement Distresses from Video Images, Koon Meng Chua and Ling Xu, TE May/June 94, p412-431.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Pavement damage

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Pavement design

Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Pavement deterioration

Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Reliability Assessment of Continuously Reinforced Concrete Pavements, Angela J. Weissmann, B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192.

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Simple Procedure for Identifying Pavement Distresses from Video Images, Koon Meng Chua and Ling Xu, TE May/June 94, p412-431.

Pavement management systems

New Crack-Imaging Procedure Using Spatial Autocorrelation Function, H. Lee and H. Oshima, TE Mar./Apr. 94, p206-228.

Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Reliability Assessment of Continuously Reinforced Concrete Pavements, Angela J. Weissmann, B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192.

Pavement markings

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Pavement overlays

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Pavements

Dynamic Linear Back Calculation of Pavement Material Parameters, Jacob Uzan, TE Jan./Feb. 94, p109-126.

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Image-Based Expert-System Approach to Distress Detection on CRC Pavement, Stephen Tsao, Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64.

Mechanistic Model for Transition Probabilities, K. H. Chua and C. L. Monismith, TE Jan./Feb. 94, p144-159.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Pedestrians

Characteristics of Trips by Foot and Bicycle Modes in Indian City, V. Thamizh Arasan, V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294.

Performance evaluation

Effect of Restriction of Vision on Driving Performance, Rod Troutbeck and Joanne M. Wood, TE Sept./Oct. 94, p737-752.

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Pipe design

Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Pipelines

Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Pipes

Effect of Temperature Changes on Water-Main Breaks, Ahmad Habibian, TE Mar./Apr. 94, p312-321.

Planning

Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, W. T. Chan, T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709.

Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, T. F. Fwa, C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722.

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Plates

Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Portland cements

Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Predictions

Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Priorities

Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Privatization

Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Probabilistic methods

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Probabilistic models

Probabilistic Delay Model at Stop-Controlled Intersection, Samer M. Madanat, Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36.

Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Probability

Mechanistic Model for Transition Probabilities, K. H. Chua and C. L. Monismith, TE Jan./Feb. 94, p144-159.

Probabilistic Behavior of Pavements, Kelvin C. P. Wang, John Zaniewski and George Way, TE May/June 94, p358-375.

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Project planning

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Railroad tracks

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Rails

Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Regression analysis

New Methodology for Modeling Annual-Aircraft Emissions at Airports, B. Gordon Woodmansey and Judith G. Patterson, TE May/June 94, p339-357.

Regression models

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Rehabilitation

Integrated System to Develop Highway Rehabilitation Projects, Sarosh I. Khan, Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20.

Technologies for Planning Railroad Track Maintenance and Renewal, Donald Uzarski and Sue McNeil, TE Sept./Oct. 94, p807-820.

Reliability

Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Reliability analysis

Mechanistic Model for Transition Probabilities, K. H. Chua and C. L. Monismith, TE Jan./Feb. 94, p144-159.

Reliability Assessment of Continuously Reinforced Concrete Pavements, Angela J. Weissmann, B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192.

Resilience

Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Resilient Moduli of Granular Materials, Musharraf Zaman, Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988.

Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Resource allocation

Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Rigid pavements

Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Risk

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Road curves

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Unified Design of Horizontal Circular Curves, Said M. Easa, TE Jan./Feb. 93, p94-110.

Road design

Evaluating Roadside Hazards Using Computer-Simulation Model, Paul deLeur, Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245.

Geometric Characterization of Road Humps for Speed-Control Design, T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598.

Roads

Geometric Characterization of Road Humps for Speed-Control Design, T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598.

Geometric Design of Compound Horizontal Curves, B.K. Roy, TE July/Aug. 94, p674-683.

Roadside hazards

Evaluating Roadside Hazards Using Computer-Simulation Model, Paul deLeur, Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245.

Severity Measures in Side-Impacts with Narrow Roadside Structures, M. H. Ray, J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338.

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Roughness

Effects of Routine Maintenance on Flexible Pavement Condition, Abdullah I. Al-Mansour, Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73.

Route surveys

Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Routes

Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Rural roads

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Safety analysis

Analysis of Accident Reduction Potentials of Pavement Markings, Hashem R. Al-Masaeid and Kumares C. Sinha, TE Sept./Oct. 94, p723-736.

Seasonal variations

Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Shape

Effect of Material Properties on Compactability and Bearing Capacity, Chris J. Semmelink and Alex T. Visser, TE July/Aug. 94, p570-589.

Shear modulus

Warping Stresses in Concrete Pavements on Pasternak Foundation, X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913.

Shear stress

Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Sight

Effect of Restriction of Vision on Driving Performance, Rod Troutbeck and Joanne M. Wood, TE Sept./Oct. 94, p737-752.

Signalized intersections

Probabilistic Delay Model at Stop-Controlled Intersection, Samer M. Madanat, Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36.

Simulation
Passenger-Terminal Simulation Model, José Reynaldo Setti and Bruce G. Hutchinson, TE July/Aug. 94, p517-535.

Slabs
Effect of Orientation of Approach Slabs on Pavement Deformation, H. K. W. Wong and J. C. Small, TE July/Aug. 94, p590-602.

Socioeconomic data
Structuring Category Analysis Using Statistical Technique, V. R. Rengaraju and M. Satyakumar, TE Nov./Dec. 94, p930-939.

Soil modulus
Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Soil strength
Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Soil-pipe interaction
Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Spalling
Spalling of Continuously Reinforced Concrete Pavements, Dan G. Zollinger, Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411.

Spatial data
Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

New Crack-Imaging Procedure Using Spatial Autocorrelation Function, H. Lee and H. Oshima, TE Mar./Apr. 94, p206-228.

Specifications
Comparison of Nuclear and Core Pavement Density Measurements, Steve R. Sanders, Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966.

Speed
Optimum Curvature for Simple Horizontal Curves, Prianka N. Seneviratne and M. Nazrul Islam, TE Sept./Oct. 94, p773-786.

Speed control
Geometric Characterization of Road Humps for Speed-Control Design, T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598.

Standardization
Evaluation Framework for IVHS, Hong K. Lo, Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460.

Statistical analysis
Structuring Category Analysis Using Statistical Technique, V. R. Rengaraju and M. Satyakumar, TE Nov./Dec. 94, p930-939.

Stiffness
Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Stochastic models
Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Strain
Basics of Flexible Pipe Structural Design, R. C. Prevost and K. K. Kienow, TE July/Aug. 94, p652-671.

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Strength
Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, I. L. Al-Qadi, H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108.

Stress
Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Warping Stresses in Concrete Pavements on Pasternak Foundation, X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913.

Structural analysis
Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Structural reliability
Mechanistic Model for Transition Probabilities, K. H. Chua and C. L. Monismith, TE Jan./Feb. 94, p144-159.

Subgrades
Compacted High-Gravel-Content Subgrade Materials, William N. Houston, Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205.

Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, Herbert F. Southgate and Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952.

Surface defects
Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, Roemer M. Alfelor and Sue McNeil, TE Mar./Apr. 94, p295-311.

Swelling
Compacted High-Gravel-Content Subgrade Materials, William N. Houston, Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205.

Temperature distribution

Warping Stresses in Concrete Pavements on Pasternak Foundation, X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913.

Temperature effects

Effect of Temperature Changes on Water-Main Breaks, Ahmad Habibian, TE Mar./Apr. 94, p312-321.

Seasonal Variation of Resilient Modulus of Subgrade Soils, Myung S. Jin, K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616.

Temperature Effects on Rigid Pavements, I. E. Harik, P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143.

Testing

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Tests

Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, Boming Tang, TE May/June 93, p467-476.

Thermal stresses

Effect of Temperature Changes on Water-Main Breaks, Ahmad Habibian, TE Mar./Apr. 94, p312-321.

Three-dimensional analysis

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Time dependence

Reliability of Underground Pipelines Subject to Corrosion, M. Ahammed and R. E. Melchers, TE Nov./Dec. 94, p989-1002.

Time factors

Dwell-Time Effects of Low-Floor Bus Design, Jonathan C. Levine and Gwo-Wei Torng, TE Nov./Dec. 94, p914-929.

Toll roads

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Tolls

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Topographic maps

Model to Estimate Highway Earthwork Cost in Nepal, Naresh Sthapit and Hiroshi Mori, TE May/June 94, p498-504.

Traffic

Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Dynamic Pavement-Strain Histories from Moving Traffic Load, Zia Zafir, Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842.

Traffic analysis

Yearly Variation of Directional Distribution of Highway Traffic, Satish C. Sharma, TE May/June 93, p478-484.

Traffic characteristics

Computer Vision System for Automatic Vehicle Classification, Xidong Yuan, Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876.

Traffic conflicts

Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Traffic congestion

Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, Chien-Hua Hsiao, Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772.

Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Yearly Variation of Directional Distribution of Highway Traffic, Satish C. Sharma, TE May/June 93, p478-484.

Traffic control

Investigation of Conflict Characteristics at Airway Intersections, Joseph N. Prashker, Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859.

Neural Network for Gap Acceptance at Stop-Controlled Intersections, Prahlad D. Pant and Purushothaman Balakrishnan, TE May/June 94, p432-446.

Probabilistic Delay Model at Stop-Controlled Intersection, Samer M. Madanat, Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36.

Traffic control devices

Geometric Characterization of Road Humps for Speed-Control Design, T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598.

Traffic delay

Probabilistic Delay Model at Stop-Controlled Intersection, Samer M. Madanat, Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36.

Traffic flow

Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Optimum Design of Airport Enplaning Curbside Areas, Mahmoud S. Parizi and John P. Braaksma, TE July/Aug. 94, p536-551.

Probabilistic Delay Model at Stop-Controlled Intersection, Samer M. Madanat, Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36.

Yearly Variation of Directional Distribution of Highway Traffic, Satish C. Sharma, TE May/June 93, p478-484.

Traffic flow pattern

Neural Network for Gap Acceptance at Stop-Controlled Intersections, Prahlad D. Pant and Purushothaman Balakrishnan, TE May/June 94, p432-446.

Traffic management

Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Human Factors Design Considerations for Variable Message Freeway Signs, Jeffrey Dale Armstrong and Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282.

Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, Feng-Bor Lin and Cheng-Wei Su, TE Mar./Apr. 94, p246-263.

Traffic signs

Human Factors Design Considerations for Variable Message Freeway Signs, Jeffrey Dale Armstrong and Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282.

Traffic speed

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Traffic surveillance

Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, Chien-Hua Hsiao, Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772.

Computer Vision System for Automatic Vehicle Classification, Xidong Yuan, Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876.

Transducers

Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Transportation networks

Interactive Design of Service Routes, Jin-Yuan Wang and Jeff R. Wright, TE Nov./Dec. 94, p897-913.

Transportation planning

Evaluation Framework for IVHS, Hong K. Lo, Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460.

Structuring Category Analysis Using Statistical Technique, V. R. Rengaraju and M. Satyakumar, TE Nov./Dec. 94, p930-939.

Transportation systems

Prioritizing Transit Markets Using Analytic Hierarchy Process, Snehamay Khasnabis and Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93.

Travel costs

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Travel demand

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Travel modes

Characteristics of Trips by Foot and Bicycle Modes in Indian City, V. Thamizh Arasan, V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294.

Trip forecasting

Characteristics of Trips by Foot and Bicycle Modes in Indian City, V. Thamizh Arasan, V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294.

Structuring Category Analysis Using Statistical Technique, V. R. Rengaraju and M. Satyakumar, TE Nov./Dec. 94, p930-939.

Trucks

Alternative Approach to Estimation of Critical Cornering Speed, John D. Leonard, II, TE May/June 94, p478-496.

Statistical Evaluation of Truck Overloads, Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665.

Uniformity

Unified Design of Horizontal Circular Curves, Said M. Easa, TE Jan./Feb. 93, p94-110.

Urban planning

Structuring Category Analysis Using Statistical Technique, V. R. Rengaraju and M. Satyakumar, TE Nov./Dec. 94, p930-939.

Systems-Level Evaluation of Automated Urban Freeways, Robert A. Johnston and Raju Ceerla, TE Nov./Dec. 94, p877-896.

Validation

Validation of Knowledge-Based System with Multiple Bridge Rail Experts, Paul N. Roschke, TE Sept./Oct. 94, p787-806.

Vehicle safety

Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, M. H. Ray and J. F. Carney, III, TE July/Aug. 94, p633-651.

Vehicles

Computer Vision System for Automatic Vehicle Classification, Xidong Yuan, Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876.

Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Videotape

Simple Procedure for Identifying Pavement Distresses from Video Images, Koon Meng Chua and Ling Xu, TE May/June 94, p412-431.

Viscosity

Advanced Continuum Traffic Flow Models for Congested Freeways, Anastasios S. Lyrintzis, Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477.

Visibility
Effect of Restriction of Vision on Driving Performance, Rod Troutbeck and Joanne M. Wood, TE Sept./Oct. 94, p737-752.

Voids
Densification of Asphalt Pavements by Traffic, Charles R. Foster, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180.

Warpage
Warping Stresses in Concrete Pavements on Pasternak Foundation, X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913.

Water pipelines
Effect of Temperature Changes on Water-Main Breaks, Ahmad Habibian, TE Mar./Apr. 94, p312-321.

Weighing devices
Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Weight
Vertical Pavement Strain as Means of Weighing Vehicles, J. G. Marsh and R. J. Jewell, TE July/Aug. 94, p617-632.

Weighting functions
Optimum Design of Airport Enplaning Curbside Areas, Mahmoud S. Parizi and John P. Braaksma, TE July/Aug. 94, p536-551.

Wheels
Interface Shear Stress in Overlaid Concrete Pavements, C. M. Lau, T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177.

AUTHOR INDEX

Abdelwahab, Walid
see deLeur, Paul, TE Mar./Apr. 94, p229-245

Ahammed, M.
Reliability of Underground Pipelines Subject to Corrosion, with R. E. Melchers, TE Nov./Dec. 94, p989-1002

Alfelor, Roemer M.
Heuristic Algorithms for Aggregating Rail-Surface-Defect Data, with Sue McNeil, TE Mar./Apr. 94, p295-311

Allen, D.
see Harik, I. E., TE Jan./Feb. 94, p127-143

Al-Mansour, Abdullah I.
Effects of Routine Maintenance on Flexible Pavement Condition, with Kumares C. Sinha and Thomas Kuczek, TE Jan./Feb. 94, p65-73

Al-Masaeid, Hashem R.
Analysis of Accident Reduction Potentials of Pavement Markings, with Kumares C. Sinha, TE Sept./Oct. 94, p723-736

Al-Qadi, I. L.
Asphalt Portland Cement Concrete Composite: Laboratory Evaluation, with H. Gouru and R. E. Weyers, TE Jan./Feb. 94, p94-108

Arasan, V. Thamizh
Characteristics of Trips by Foot and Bicycle Modes in Indian City, with V. R. Rengaraju and K. V. Krishna Rao, TE Mar./Apr. 94, p283-294

Armstrong, Jeffrey Dale
Human Factors Design Considerations for Variable Message Freeway Signs, with Jonathan E. Upchurch, TE Mar./Apr. 94, p264-282

Balakrishnan, Purushothaman
see Pant, Prahlad D., TE May/June 94, p432-446

Bekhor, Shlomo
see Prashker, Joseph N., TE Sept./Oct. 94, p843-859

Beskos, Dimitrios E.
see Lyrintzis, Anastasios S., TE May/June 94, p461-477

Braaksma, John P.
see Parizi, Mahmoud S., TE July/Aug. 94, p536-551

Carney, J. F., III
see Ray, M. H., TE Mar./Apr. 94, p322-338
see Ray, M. H., TE July/Aug. 94, p633-651

Cassidy, Michael
see Hsiao, Chien-Hua, TE Sept./Oct. 94, p753-772

Cassidy, Michael J.
see Madanat, Samer M., TE Jan./Feb. 94, p21-36

Ceerla, Raju
see Johnston, Robert A., TE Nov./Dec. 94, p877-896

Chan, Paul
see Tsao, Stephen, TE Jan./Feb. 94, p52-64

Chan, W. T.
Road-Maintenance Planning Using Genetic Algorithms. I: Formulation, with T. F. Fwa and C. Y. Tan, TE Sept./Oct. 94, p693-709
see Fwa, T. F., TE Sept./Oct. 94, p710-722

Chatterjee, Arun
see Lo, Hong K., TE May/June 94, p447-460

Chaudhry, Bharat B.
see Khasnabis, Snehamay, TE Jan./Feb. 94, p74-93

Chen, Dar-Hao
see Zaman, Musharraf, TE Nov./Dec. 94, p967-988

Chua, K. H.
Mechanistic Model for Transition Probabilities, with C. L. Monismith, TE Jan./Feb. 94, p144-159

Chua, Koon Meng
Simple Procedure for Identifying Pavement Distresses from Video Images, with Ling Xu, TE May/June 94, p412-431

deLeur, Paul
Evaluating Roadside Hazards Using Computer-Simulation Model, with Walid Abdelwahab and Francis Navin, TE Mar./Apr. 94, p229-245

Easa, Said M.
Unified Design of Horizontal Circular Curves, TE Jan./Feb. 93, p94-110
disc: B. K. Roy, TE July/Aug. 94, p686-687
clo: TE July/Aug. 94, p687-689

Faramawi, M. I.
see Ray, M. H., TE Mar./Apr. 94, p322-338

Fekpe, Edward S. K.
disc. (of Statistical Evaluation of Truck Overloads, by Jamshid Mohammadi and Nadir Shah, TE Sept./Oct. 92, p651-665), TE May/June 94, p506-508

Foster, Charles R.
Densification of Asphalt Pavements by Traffic, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), p164-180
disc: Bob Gallaway, TE Nov./Dec. 94, p1006-1007
clo: TE Nov./Dec. 94, p1007

Fwa, T. F.
Geometric Characterization of Road Humps for Speed-Control Design, with L. S. Tan, TE July/Aug. 92, p593-598
disc: I. K. Lee and K. S. Li, TE May/June 94, p509-511
clo: TE May/June 94, p511-512
Road-Maintenance Planning Using Genetic Algorithms. II: Analysis, with C. Y. Tan and W. T. Chan, TE Sept./Oct. 94, p710-722
see Chan, W. T., TE Sept./Oct. 94, p693-709
see Lau, C. M., TE Mar./Apr. 94, p163-177
see Shi, X. P., TE Nov./Dec. 93, p905-913

Gallaway, Bob
disc. (of Densification of Asphalt Pavements by Traffic, (*Airport Pavement Innovations—Theory to Practice*, Jim W. Hall, Jr., ed., 1993), by Charles R. Foster, p164-180), TE Nov./Dec. 94, p1006-1007

Giagola, Douglas M.
see Scherer, William T., TE Jan./Feb. 94, p37-51

Goura, H.
see Al-Qadi, I. L., TE Jan./Feb. 94, p94-108

Habibian, Ahmad
Effect of Temperature Changes on Water-Main Breaks, TE Mar./Apr. 94, p312-321

Harik, I. E.
Temperature Effects on Rigid Pavements, with P. Jianping, H. Southgate and D. Allen, TE Jan./Feb. 94, p127-143

Hocherman, Irit
see Prashker, Joseph N., TE Sept./Oct. 94, p843-859

Hossain, Mustaque
Estimation of Pavement-Layer Moduli Using Nonlinear Optimization Technique, with John Zaniewski and Subramaniam Rajan, TE May/June 94, p376-393

Houston, Sandra L.
see Houston, William N., TE Mar./Apr. 94, p193-205

Houston, William N.
Compacted High-Gravel-Content Subgrade Materials, with Sandra L. Houston and Kenneth D. Walsh, TE Mar./Apr. 94, p193-205

Hsiao, Chien-Hua
Application of Fuzzy Logic and Neural Networks to Automatically Detect Freeway Traffic Incidents, with Ching-Teng Lin and Michael Cassidy, TE Sept./Oct. 94, p753-772

Hudson, W. Ronald
see Weissmann, Angela J., TE Mar./Apr. 94, p178-192

Hutchinson, Bruce G.
see Setti, José Reynaldo, TE July/Aug. 94, p517-535

Islam, M. Nazrul
see Seneviratne, Prianka N., TE Sept./Oct. 94, p773-786

Jewell, R. J.
see Marsh, J. G., TE July/Aug. 94, p617-632

Jianping, P.
see Harik, I. E., TE Jan./Feb. 94, p127-143

Jin, Myung S.
Seasonal Variation of Resilient Modulus of Subgrade Soils, with K. Wayne Lee and William D. Kovacs, TE July/Aug. 94, p603-616

Johnston, Robert A.
Systems-Level Evaluation of Automated Urban Freeways, with Raju Ceerla, TE Nov./Dec. 94, p877-896

Kampe, Karl
see Khan, Sarosh I., TE Jan./Feb. 94, p1-20

Kaseko, Mohamed S.
Comparison of Traditional and Neural Classifiers for Pavement-Crack Detection, with Zhen-Ping Lo and Stephen G. Ritchie, TE July/Aug. 94, p552-569

Kehtarnavaz, Nasser
see Tsao, Stephen, TE Jan./Feb. 94, p52-64

Kerr, Arnold D.
disc. (of Warping Stresses in Concrete Pavements on Pasternak Foundation, by X. P. Shi, T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913), TE Nov./Dec. 94, p1004-1005

Khan, Sarosh I.
Integrated System to Develop Highway Rehabilitation Projects, with Stephen G. Ritchie and Karl Kampe, TE Jan./Feb. 94, p1-20

Khasnabis, Snehamay
Prioritizing Transit Markets Using Analytic Hierarchy Process, with Bharat B. Chaudhry, TE Jan./Feb. 94, p74-93

Kienow, K. K.
see Prevost, R. C., TE July/Aug. 94, p652-671

Kovacs, William D.
see Jin, Myung S., TE July/Aug. 94, p603-616

Kuczek, Thomas
see Al-Mansour, Abdullah I., TE Jan./Feb. 94, p65-73

Laguros, Joakim
see Zaman, Musharraf, TE Nov./Dec. 94, p967-988

Lau, C. M.
Interface Shear Stress in Overlaid Concrete Pavements, with T. F. Fwa and P. Paramasivam, TE Mar./Apr. 94, p163-177

Lee, H.
New Crack-Imaging Procedure Using Spatial Autocorrelation Function, with H. Oshima, TE Mar./Apr. 94, p206-228

Lee, I. K.
disc. (of Geometric Characterization of Road Humps for Speed-Control Design, by T. F. Fwa and L. S. Tan, TE July/Aug. 92, p593-598) with K. S. Li, TE May/June 94, p509-511

Lee, K. Wayne
see Jin, Myung S., TE July/Aug. 94, p603-616

Leonard, John D., II
Alternative Approach to Estimation of Critical Cornering Speed, TE May/June 94, p478-496

Levine, Jonathan C.
Dwell-Time Effects of Low-Floor Bus Design, with Gwo-Wei Torng, TE Nov./Dec. 94, p914-929

Li, K. S.
see Lee, I. K., (disc), TE July/Aug. 92, p593-598

Lin, Ching-Teng
see Hsiao, Chien-Hua, TE Sept./Oct. 94, p753-772

Lin, Feng-Bor
Level-of-Service Analysis of Toll Plazas on Freeway Main Lines, with Cheng-Wei Su, TE Mar./Apr. 94, p246-263

Lo, Hong K.
Evaluation Framework for IVHS, with Arun Chatterjee, Frederick Wegmann, Stephen Richards and Ajay K. Rathi, TE May/June 94, p447-460

Lo, Zhen-Ping
see Kaseko, Mohamed S., TE July/Aug. 94, p552-569

Lu, Yean-Jye
see Yuan, Xidong, TE Nov./Dec. 94, p861-876

Lyrintzis, Anastasios S.
Advanced Continuum Traffic Flow Models for Congested Freeways, with Ping Yi, Panos G. Michalopoulos and Dimitrios E. Beskos, TE May/June 94, p461-477

Lytton, Robert
see Tsao, Stephen, TE Jan./Feb. 94, p52-64

Madanat, Samer M.
Probabilistic Delay Model at Stop-Controlled Intersection, with Michael J. Cassidy and Mu-Han Wang, TE Jan./Feb. 94, p21-36

Mahboub, Kamyar C.
see Southgate, Herbert F., TE Nov./Dec. 94, p940-952

Marsh, J. G.
Vertical Pavement Strain as Means of Weighing Vehicles, with R. J. Jewell, TE July/Aug. 94, p617-632

McCullough, B. Frank
see Weissmann, Angela J., TE Mar./Apr. 94, p178-192

McNeil, Sue
see Alfelor, Roemer M., TE Mar./Apr. 94, p295-311
see Uzarski, Donald, TE Sept./Oct. 94, p807-820

Melchers, R. E.
see Ahammed, M., TE Nov./Dec. 94, p989-1002

Michalopoulos, Panos G.
see Lyrintzis, Anastasios S., TE May/June 94, p461-477

Mohammadi, Jamshid
Statistical Evaluation of Truck Overloads, with Nadir Shah, TE Sept./Oct. 92, p651-665
disc: Edward S. K. Fekpe, TE May/June 94, p506-508
clo: TE May/June 94, p508-509

Monismith, C. L.
see Chua, K. H., TE Jan./Feb. 94, p144-159

Mori, Hiroshi
see Sthapit, Naresh, TE May/June 94, p498-504

Navin, Francis
see deLeur, Paul, TE Mar./Apr. 94, p229-245

Oshima, H.
see Lee, H., TE Mar./Apr. 94, p206-228

Pant, Prahlad D.
Neural Network for Gap Acceptance at Stop-Controlled Intersections, with Purushothaman Balakrishnan, TE May/June 94, p432-446

Paramasivam, P.
see Lau, C. M., TE Mar./Apr. 94, p163-177

Parizi, Mahmood S.
Optimum Design of Airport Enplaning Curbside Areas, with John P. Braaksma, TE July/Aug. 94, p536-551

Parker, Frazier, Jr.
see Sanders, Steve R., TE Nov./Dec. 94, p953-966

Patterson, Judith G.
see Woodmansey, B. Gordon, TE May/June 94, p339-357

Prashker, Joseph N.
Investigation of Conflict Characteristics at Airway Intersections, with Irit Hocherman and Shlomo Bekhor, TE Sept./Oct. 94, p843-859

Prevost, R. C.
Basics of Flexible Pipe Structural Design, with K. K. Kienow, TE July/Aug. 94, p652-671

Rajan, Subramaniam
see Hossain, Mustaque, TE May/June 94, p376-393

Rao, K. V. Krishna
see Arasan, V. Thamizh, TE Mar./Apr. 94, p283-294

Rath, Debasis
see Sanders, Steve R., TE Nov./Dec. 94, p953-966

Rathi, Ajay K.
see Lo, Hong K., TE May/June 94, p447-460

Ray, M. H.
Severity Measures in Side-Impacts with Narrow Roadside Structures, with J. F. Carney, III, M. I. Faramawi and L. A. Troxel, TE Mar./Apr. 94, p322-338
Test and Evaluation Criteria for Side-Impact Roadside Appurtenance Collisions, with J. F. Carney, III, TE July/Aug. 94, p633-651

Rengaraju, V. R.
Structuring Category Analysis Using Statistical Technique, with M. Satyakumar, TE Nov./Dec. 94, p930-939
see Arasan, V. Thamizh, TE Mar./Apr. 94, p283-294

Richards, Stephen
see Lo, Hong K., TE May/June 94, p447-460

Ritchie, Stephen G.
see Kaseko, Mohamed S., TE July/Aug. 94, p552-569
see Khan, Sarosh I., TE Jan./Feb. 94, p1-20

Roschke, Paul N.
Validation of Knowledge-Based System with Multiple Bridge Rail Experts, TE Sept./Oct. 94, p787-806

Roy, B. K.
disc. (of Unified Design of Horizontal Circular Curves, by Said M. Easa, TE Jan./Feb. 93, p94-110), TE July/Aug. 94, p686-687

Roy, B.K.
Geometric Design of Compound Horizontal Curves, TE July/Aug. 94, p674-683

Sanders, Steve R.
Comparison of Nuclear and Core Pavement Density Measurements, with Debasis Rath and Frazier Parker, Jr., TE Nov./Dec. 94, p953-966

Sarraf, Semaan
see Yuan, Xidong, TE Nov./Dec. 94, p861-876

Satyakumar, M.
see Rengaraju, V. R., TE Nov./Dec. 94, p930-939

Scherer, William T.
Markovian Models for Bridge Maintenance Management, with Douglas M. Glagola, TE Jan./Feb. 94, p37-51

Sebaaly, Peter E.
see Zafir, Zia, TE Sept./Oct. 94, p821-842

Semmelink, Chris J.
Effect of Material Properties on Compactability and Bearing Capacity, with Alex T. Visser, TE July/Aug. 94, p570-589

Senadheera, Sanjaya P.
see Zollinger, Dan G., TE May/June 94, p394-411

Seneviratne, Prianka N.
Optimum Curvature for Simple Horizontal Curves, with M. Nazrul Islam, TE Sept./Oct. 94, p773-786

Setti, José Reynaldo
Passenger-Terminal Simulation Model, with Bruce G. Hutchinson, TE July/Aug. 94, p517-535

Shah, Nadir
see Mohammadi, Jamshid, TE Sept./Oct. 92, p651-665

Sharma, Satish C.
Yearly Variation of Directional Distribution of Highway Traffic, TE May/June 93, p478-484
disc: David K. Wanty, TE July/Aug. 94, p689-690
clo: TE July/Aug. 94, p691

Shi, X. P.
Warping Stresses in Concrete Pavements on Pasternak Foundation, with T. F. Fwa and S. A. Tan, TE Nov./Dec. 93, p905-913
disc: Arnold D. Kerr, TE Nov./Dec. 94, p1004-1005
clo: TE Nov./Dec. 94, p1005-1006

Siddharthan, Raj
see Zafir, Zia, TE Sept./Oct. 94, p821-842

Sinha, Kumares C.
see Al-Mansour, Abdullah I., TE Jan./Feb. 94, p65-73
see Al-Masaeid, Hashem R., TE Sept./Oct. 94, p723-736

Small, J. C.
see Wong, H. K. W., TE July/Aug. 94, p590-602

Southgate, H.
see Harik, I. E., TE Jan./Feb. 94, p127-143

Southgate, Herbert F.
Proposed Uniform Scale for Stiffness of Unbound Pavement Materials for Pavement Design, with Kamyar C. Mahboub, TE Nov./Dec. 94, p940-952

Sthapit, Naresh
Model to Estimate Highway Earthwork Cost in Nepal, with Hiroshi Mori, TE May/June 94, p498-504

Su, Cheng-Wei
see Lin, Feng-Bor, TE Mar./Apr. 94, p246-263

Tan, C. Y.
see Chan, W. T., TE Sept./Oct. 94, p693-709
see Fwa, T. F., TE Sept./Oct. 94, p710-722

Tan, L. S.
see Fwa, T. F., TE July/Aug. 92, p593-598

Tan, S. A.
see Shi, X. P., TE Nov./Dec. 93, p905-913

Tang, Boming
Structural Evaluation of Airfield Rigid Pavements Using Falling Weight Deflectometer, TE May/June 93, p467-476
err: TE May/June 94, p513-517

Tang, Tianxi
see Zollinger, Dan G., TE May/June 94, p394-411

Torng, Gwo-Wei
see Levine, Jonathan C., TE Nov./Dec. 94, p914-929

Troutbeck, Rod
Effect of Restriction of Vision on Driving Performance, with Joanne M. Wood, TE Sept./Oct. 94, p737-752

Troxel, L. A.
see Ray, M. H., TE Mar./Apr. 94, p322-338

Tsao, Stephen
Image-Based Expert-System Approach to Distress Detection on CRC Pavement, with Nasser Kehtarnavaz, Paul Chan and Robert Lytton, TE Jan./Feb. 94, p52-64

Upchurch, Jonathan E.
see Armstrong, Jeffrey Dale, TE Mar./Apr. 94, p264-282

Uzan, Jacob
Dynamic Linear Back Calculation of Pavement Material Parameters, TE Jan./Feb. 94, p109-126

Uzarski, Donald
Technologies for Planning Railroad Track Maintenance and Renewal, with Sue McNeil, TE Sept./Oct. 94, p807-820

Visser, Alex T.
see Semmelink, Chris J., TE July/Aug. 94, p570-589

Walsh, Kenneth D.
see Houston, William N., TE Mar./Apr. 94, p193-205

Wang, Jin-Yuan
Interactive Design of Service Routes, with Jeff R. Wright, TE Nov./Dec. 94, p897-913

Wang, Kelvin C. P.
Probabilistic Behavior of Pavements, with John Zaniewski and George Way, TE May/June 94, p358-375

Wang, Mu-Han
see Madanat, Samer M., TE Jan./Feb. 94, p21-36

Wanty, David K.
disc. (of Yearly Variation of Directional Distribution of Highway Traffic, by Satish C. Sharma, TE May/June 93, p478-484), TE July/Aug. 94, p689-690

Way, George
see Wang, Kelvin C. P., TE May/June 94, p358-375

Wegmann, Frederick
see Lo, Hong K., TE May/June 94, p447-460

Weissmann, Angela J.
Reliability Assessment of Continuously Reinforced Concrete Pavements, with B. Frank McCullough and W. Ronald Hudson, TE Mar./Apr. 94, p178-192

Weyers, R. E.
see Al-Qadi, I. L., TE Jan./Feb. 94, p94-108

Wong, H. K. W.
Effect of Orientation of Approach Slabs on Pavement Deformation, with J. C. Small, TE July/Aug. 94, p590-602

Wood, Joanne M.
see Troutbeck, Rod, TE Sept./Oct. 94, p737-752

Woodmansey, B. Gordon
New Methodology for Modeling Annual-Aircraft Emissions at Airports, with Judith G. Patterson, TE May/June 94, p339-357

Wright, Jeff R.
see Wang, Jin-Yuan, TE Nov./Dec. 94, p897-913

Xu, Ling
see Chua, Koon Meng, TE May/June 94, p412-431

Yi, Ping
see Lyrintzis, Anastasios S., TE May/June 94, p461-477

Yuan, Xidong
Computer Vision System for Automatic Vehicle Classification, with Yean-Jye Lu and Semaan Sarraf, TE Nov./Dec. 94, p861-876

Zafir, Zia
Dynamic Pavement-Strain Histories from Moving Traffic Load, with Raj Siddharthan and Peter E. Sebaaly, TE Sept./Oct. 94, p821-842

Zaman, Musharraf
Resilient Moduli of Granular Materials, with Dar-Hao Chen and Joakim Laguros, TE Nov./Dec. 94, p967-988

Zaniewski, John
see Hossain, Mustaque, TE May/June 94, p376-393
see Wang, Kelvin C. P., TE May/June 94, p358-375

Zollinger, Dan G.
Spalling of Continuously Reinforced Concrete Pavements, with Sanjaya P. Senadheera and Tianxi Tang, TE May/June 94, p394-411